

Calculation Worksheet for Minimum Board Width - (Metric)

Purpose: To ensure last board of the installation (or long board at an obstruction) is not too narrow.
General Rule: Kährs requires that no board have a width less than 76mm or .38" of a full board width.
Notes on Equation: This rule applies to boards with an original thickness of 15mm x 3-strip wide. This equation should be used when a board 120cm or more in length meets an obstruction.

WORKSHEET	
Step 1 Measure width of connected area* from starting wall to finish wall or obstruction, in inches. Round to the nearest 1/4".	
Total Area Width in mm:	_____
Step 2 Multiply "Required Expansion Space by 2". Use chart below.	
Required Expansion Space:	_____ mm
	X 2
Total Expansion =	_____ mm
Step 3 Subtract Total Expansion from Total Area Width to determine Actual Floor Width.	
Total from Step 1:	_____ mm
Total from Step 2:	- _____ mm
Actual Floor Width:	= _____ mm
Step 4 Determine total # of rows of flooring needed.	
Actual Floor Width (Step 3):	_____ mm
Board Width. Measure board. It will be either 200 or 205mm.	÷ _____ mm
Total Rows of Flooring:	= _____ rows
Step 5 If the result in Step 6 contains a decimal less than .38", you must rip the starting row in half to ensure proper width of the last row.	

EXAMPLE	
Step 1 Measure width of connected area* from starting wall to finish wall or obstruction, in inches. Round to the nearest 1/4".	
Total Area Width in mm:	_____ 8262mm
Step 2 Multiply "Required Expansion Space by 2". Use chart below.	
Required Expansion Space:	_____ 20mm
	X 2
Total Expansion =	_____ 40mm
Step 3 Subtract Total Expansion from Total Area Width to determine Actual Floor Width.	
Total from Step 1:	_____ 8262mm
Total from Step 2:	- _____ 40mm
Actual Floor Width:	= _____ 8222mm
Step 4 Determine total # of rows of flooring needed.	
Actual Floor Width (Step 3):	_____ 8222mm
Board Width. Measure board. It will be either 200 or 205mm.	÷ _____ 200mm
Total Rows of Flooring:	= _____ 41.11 rows*
<i>*The first board in this installation would be ripped in half.</i>	
Step 5 If the result in Step 6 contains a decimal less than .38", you must rip the starting row in half to ensure proper width of the last row. Ripping the starting row in half will increase the last board width by .50 of a board. In this case the last board will end up being .61 of a board or approx. 120mm, instead of .11 or 22mm wide.	

* From Step 1 - Connected Area is defined as all areas connected without a break. If Room A and Room B both are to have flooring installed and are directly connected, or connected by a hallway, without a t-molding, the **connected area** is the width of both Room A and Room B, and the hallway (if applicable). Obstructions can include cabinets, islands, and the wall opposite the starting wall in the same room, if the flooring continues to another room without a break. Multiple calculations may need to be made to best determine the amount cut from the starting row.

Required Expansion Space Chart	
Floor Width	Space Needed
up to 750mm	12mm
750mm-1200mm	20mm